



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CFM56-7B26 BYPASS RATIO: 5.1
 UNIQUE ID NUMBER: 3CM033 PRESSURE RATIO (π_{00}): 27.6
 COMBUSTOR:
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 117.0

REGULATORY DATA **** DATA SUPERSEDED ** SEE FOLLOWING UID FOR REVISED DATA: 8CM051**

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	4.7	37.2	62.2	18.9
AS % OF ORIGINAL LIMIT	24.0	31.5	65.3	83.4
AS % OF CAEP/2 LIMIT (NO _x)			81.7	
AS % OF CAEP/4 LIMIT (NO _x)			96.6	
AS % OF CAEP/6 LIMIT (NO _x)			111.9	
AS % OF CAEP/8 LIMIT (NO _x)			133.0	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	1.221	0.10	0.20	28.80	14.7
CLIMB OUT	85	2.2	0.999	0.10	0.60	22.50	11.9
APPROACH	30	4.0	0.338	0.10	1.60	10.80	0.0
IDLE	7	26.0	0.113	1.90	18.80	4.70	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			441	361	3533	6149	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				3.1	30.3	52.6	14.7
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.8-98
TEMPERATURE (K)	294-297
ABS HUMIDITY (kg/kg)	0.01-0.0157

FUEL

SPEC	Jet A
H/C	1.86-1.97
AROM (%)	16.9-17.7

MANUFACTURER: CFM International
 TEST ORGANIZATION: CFM56-7B Eval Engineering
 TEST LOCATION: Peebles Test Operation (PTO), Peebles, Ohio
 TEST DATES: 01/07/1996

REMARKS

1. FAA Certification Report CR-997, Dec 96.
2. Engine S/N 874-101/01

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)